

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): In a system in which a print job submitting device and a plurality of print devices are connected via a network, a print job management system that is ~~disposed corresponding~~ provided to each of said print devices and manages print jobs, wherein each print job includes a body of data and job information, said print job management system comprising:

a job storage unit that, when a request to execute a two-way type print job, which is to be executed in connection with a two-way communication between said print job submitting device and the print device, is received from said print job submitting device, stores ~~predetermined data for job control~~ job information for job control that is different from said print job itself;

a print job execution unit that, when it is determined that a timing of printing said two-way type print job is reached according to said ~~predetermined data~~ job information, establishes a two-way communication between said print job submitting device and said print ~~device and device~~, receives the body of data from the job submitting device and uses the job information stored in the job storage unit, and thereby executes printing;

a storage location change unit that, when an instruction for moving said print job to another print device is input, changes a storage location of said ~~predetermined data~~ job information to another print job management system that corresponds to said another print device; and

a notification unit that provides a notification of change in the storage location to said print job submitting device,

wherein the notification includes an address of said another print device and an instruction for switching a destination of the two-way communication.

Claim 2 (Currently Amended): A print job management system according to claim 1, wherein

said storage location change unit moves said ~~predetermined data~~ job information to said another print job management system.

Claim 3 (Currently Amended): A print job management system according to claim 1, wherein

said storage location change unit deletes said ~~predetermined data~~ job information and causes said print job submitting device to resubmit said print job to said another print device.

Claim 4 (Currently Amended): A print job management system according to claim 1, wherein

said ~~predetermined data~~ job information comprises a part of data that constitutes said print job.

Claim 5 (Original): A print job management system according to claim 1, further comprising:

a hold instruction unit that, at the time of receiving the request to execute said two-way type print job, causes said print job submitting device to put the transmission of said print job on hold.

Claim 6 (Currently Amended): A print job management system according to claim 1, wherein

said notification of change includes:

information that specifies said another print device; and

information that represents a new storage location of said ~~predetermined data~~ job information.

Claim 7 (Currently Amended): In a system in which a print job submitting device and a plurality of print devices are connected via a network, a print job management system that is ~~disposed corresponding~~ provided to each of said print devices and manages print jobs, wherein each print job includes a body of data and job information, said print job management system comprising:

a job storage unit that, when a request to execute a two-way type print job, which is to be executed in connection with a two-way communication between said print job submitting device and the print device, is received from said print job submitting device, stores ~~predetermined data for job control~~ job information for job control that is different from said print job itself;

a print job execution unit that, when it is determined that a timing of printing said two-way type print job is reached according to said ~~predetermined data~~ job information, establishes a two-way communication between said print job submitting device and said print ~~device and~~ device, receives the body of data from the job submitting device and uses the job information stored in the job storage unit, and thereby executes printing; and

a change notification unit that, when an instruction for changing a storage location of said two-way type print job is received from another print job management system that received a request to print said two-way type print job from said print job submitting device, stores said ~~predetermined data~~ job information in said job storage unit and provides a notification of change in the storage location to said print job submitting device that submitted said two-way type print job,

wherein the notification includes an address of another print device and an instruction for switching a destination of the two-way communication.

Claim 8 (Original): A print job management system according to claim 7, wherein

information on change of the storage location at least includes information for specifying said print job submitting device and instruction for changing the storage location; and

wherein by means of said notification of change, said change notification unit requires said print job submitting device that is specified by said information on change of the storage location to resubmit said print job.

Claim 9 (Currently Amended): A print job management system according to claim 7, wherein

the information on change of the storage location comprises said ~~predetermined data~~ job information.

Claim 10 (Currently Amended): A print job management system according to claim 7, wherein

said ~~predetermined data~~ job information comprises a part of data that constitutes said print job.

Claim 11 (Original): A print job management system according to claim 7, further comprising:

a hold instruction unit that, at the time of receiving the request to execute said two-way type print job, causes said print job submitting device to put the transmission of said print job on hold.

Claim 12 (Currently Amended): A print job management system according to claim 7, wherein

said notification of change includes:

information that specifies said another print device; and

information that represents a new storage location of said ~~predetermined data~~ job information.

Claim 13 (Currently Amended): A print job management system that manages print jobs in a system in which a print job submitting device and a plurality of print devices are connected via a network,

wherein a spooler is ~~disposed corresponding~~ provided to each of said print ~~devices;~~ and devices,

wherein each print job includes a body of data and job information, and

wherein when a request to execute a two-way type print job, which is to be executed in connection with a two-way communication between said print device and said print job

submitting device, is received, said spooler stores ~~predetermined data~~ job information for job control that is different from said print job itself,

said print job management system comprising:

a move detection unit that detects a move of said ~~predetermined data~~ job information between said respective spoolers; and

a change notification unit that, when said move is detected, provides a notification of change in storage location to said print job submitting device,

wherein the notification includes an address of another print device and an instruction for switching a destination of the two-way communication.

Claim 14 (Currently Amended): A print job management system according to claim 13, wherein

said ~~predetermined data~~ job information comprises a part of data that constitutes said print job.

Claim 15 (Currently Amended): A print job management system according to claim 13, further comprising:

a hold instruction unit that, at the time of receiving the request to execute said two-way type print job, causes said print job submitting device to put the transmission of said body of data for the print job on hold.

Claim 16 (Currently Amended): A print job management system according to claim 13, wherein

said notification of change includes:

information that specifies said another print device; and

information that represents a new storage location of said ~~predetermined data~~ job information.

Claim 17 (Currently Amended): In a network to which a plurality of print devices are connected, a print job submitting device that submits a print job to one of said print devices, wherein in said network, a print job management system for controlling print job execution is ~~disposed~~ corresponding provided to each of said print devices, wherein the print job includes a body of data and job information, and wherein the print job submitting device sends the body of data directly to the one of the print devices in execution of a two-way type print job that requires a two-way communication with said print device at the time of printing,

said print job submitting device comprising:

a communication establishment unit that, in execution ~~of a~~ of the two-way type print job that requires a two-way communication with said print device at the time of printing, ~~establishes job,~~ establishes a two-way communication with said print device according to an instruction from said print job management system; and

a communication switch unit that, when a notification of change, which represents that the print device for print job execution is changed, is received from one of said print job management systems, switches the destination of said two-way communication to a new print device.

Claim 18 (Currently Amended): In a system in which a print job submitting device and a plurality of print devices are connected via a network, a print job management method in a print job management system that is ~~disposed~~ corresponding provided to each of said print devices, wherein each print job includes a body of data and job information, said print job management method comprising the steps of:

(a) when a request to execute a two-way type print job, which is to be executed in connection with a two-way communication between said print job submitting device and the print device, is received from said print job submitting device, storing ~~predetermined data for job control~~ job information for job control that is different from said print job itself;

(b) when it is determined that a timing of printing said two-way type print job is reached according to said ~~predetermined data~~ job information, establishing a two-way communication between said print job submitting device and said print ~~device and device,~~ receiving the body of data from the job submitting device and using the job information stored in the job storage unit, and thereby executing printing;

(c) when an instruction for moving said print job to another print device is input, changing a storage location of said ~~predetermined data~~ job information to another print job management system that corresponds to said another print device; and

(d) providing a notification of change in the storage location to said print job submitting device,

wherein the notification includes an address of said another print device and an instruction for switching a destination of the two-way communication.

Claim 19 (Currently Amended): In a system in which a print job submitting device and a plurality of print devices are connected via a network, a print job management method in a system that is ~~disposed corresponding~~ provided to each of said print devices and manages print jobs, wherein each print job includes a body of data and job information, said print job management method comprising the steps of:

(a) when a request to execute a two-way type print job, which is to be executed in connection with a two-way communication between said print job submitting device and the print device, is received from said print job submitting device, storing ~~predetermined data for job control~~ job information for job control that is different from said print job itself;

(b) when it is determined that a timing of printing said two-way type print job is reached according to said ~~predetermined data~~ job information, establishing a two-way communication between said print job submitting device and said print ~~device and device~~, receiving the body of data from the job submitting device and using the job information stored in the job storage unit, and thereby executing printing; and

(c) when an instruction for changing a storage location of said two-way type print job is received from another print job management system that received a request to print said two-way type print job from said print job submitting device, storing said ~~predetermined data~~ job information and providing a notification of change in the storage location to said print job submitting device that submitted said two-way type print job,

wherein the notification includes an address of another print device and an instruction for switching a destination of the two-way communication.

Claim 20 (Currently Amended): A print job management method that manages print jobs in a system in which a print job submitting device and a plurality of print devices are connected via a network,

wherein a spooler is ~~disposed corresponding~~ provided to each of said print devices;
~~and devices,~~

wherein each print job includes body of data and job information, and

wherein when a request to execute a two-way type print job, which is to be executed in connection with a two-way communication between said print device and said print job submitting device, is received, said spooler stores ~~predetermined data~~ job information for job control that is different from said print job itself,

said print job management method comprising the steps of:

(a) detecting a move of said ~~predetermined data~~ job information between said respective spoolers; and

(b) when said move is detected, providing a notification of change in storage location to said print job submitting device,

wherein the notification includes an address of another print device and an instruction for switching a destination of the two-way communication.

Claim 21 (Currently Amended): In a network to which a plurality of print devices and a print job submitting device are connected, a method of printing that controls said print job submitting device and thereby executes a two-way type print job, said two-way type print job requiring a two-way communication between the print device and said print job submitting device,

wherein in said network, a print job management system for controlling print job execution is ~~disposed corresponding~~ provided to each of said print devices,

wherein the print job includes a body of data and job information, and

wherein the print job submitting device sends the body of data directly to the one of the print devices in execution of said two-way type print job that requires a two-way communication with said print device at the time of printing,

said method of printing comprising the steps of:

(a) in execution of said two-way type print job, establishing a two-way communication with said print device according to an instruction from said print job management system; and

(b) when a notification of change, which represents that the print device for print job execution is changed, is received from one of said print job management systems, switching a destination of said two-way communication to a new print device,

wherein the notification includes an address of said new print device and an instruction for switching the destination of the two-way communication.

Claim 22 (Currently Amended): In a system in which a print job submitting device and a plurality of print devices are connected via a network, a recording medium that is recorded with a computer program for causing a print job management system that is ~~disposed~~ corresponding provided to each of said print devices to manage print jobs, wherein each print job includes a body of data and job information, said computer program causing a computer to implement the functions of:

when a request to execute a two-way type print job, which is to be executed in connection with a two-way communication between said print job submitting device and the print device, is received from said print job submitting device, storing ~~predetermined data for job control~~ job information for job control that is different from said print job itself;

when it is determined that a timing of printing said two-way type print job is reached according to said ~~predetermined data~~ job information, establishing a two-way communication between said print job submitting device and said print device, receiving the body of data from the job submitting device and using the job information stored in the job storage unit, and thereby executing printing;

when an instruction for moving said print job to another print device is input, changing a storage location of said ~~predetermined data~~ job information to another print job management system that corresponds to said another print device; and

providing a notification of change in the storage location to said print job submitting device,

wherein the notification includes an address of said another print device and an instruction for switching a destination of the two-way communication.

Claim 23 (Currently Amended): In a system in which a print job submitting device and a plurality of print devices are connected via a network, a recording medium that is recorded with a computer program for causing a print job management system that is ~~disposed~~ corresponding provided to each of said print devices to manage print jobs, wherein each print job includes a body of data and job information, said computer program causing a computer to implement the functions of:

when a request to execute a two-way type print job, which is to be executed in connection with a two-way communication between said print job submitting device and the print device, is received from said print job submitting device, storing ~~predetermined data for job control~~ job information for job control that is different from said print job itself;

when it is determined that a timing of printing said two-way type print job is reached according to said ~~predetermined data~~ job information, establishing a two-way communication between said print job submitting device and said print device, receiving the body of data from the job submitting device and using the job information stored in the job storage unit, and thereby executing printing;

when an instruction for changing a storage location of said two-way type print job is received from another print job management system that received a request to print said two-way type print job from said print job submitting device, storing said ~~predetermined data~~ job information and providing a notification of change in the storage location to said print job submitting device that submitted said two-way type print job,

wherein the notification includes an address of another print device and an instruction for switching a destination of the two-way communication.

Claim 24 (Currently Amended): A recording medium that is recorded with a computer program for managing print jobs in a system in which a print job submitting device and a plurality of print devices are connected via a network,

wherein a spooler is ~~disposed~~ corresponding provided to each of said print ~~devices~~; and devices,

wherein each print job includes a body of data and job information, and

wherein when a request to execute a two-way type print job, which is to be executed in connection with a two-way communication between said print device and said print job

submitting device, is received, said spooler stores ~~predetermined data~~ job information for job control that is different from said print job itself,

said computer program causing a computer to implement the functions of:

detecting a move of said ~~predetermined data~~ job information between said respective spoolers; and

when said move is detected, provides a notification of change in storage location to said print job submitting device,

wherein the notification includes an address of another print device and an instruction for switching a destination of the two-way communication.

Claim 25 (Currently Amended): In a network to which a plurality of print devices and a print job submitting device are connected, a recording medium that is recorded with a computer program for executing a two-way type print job by said print job submitting device, said two-way type print job requiring a two-way communication between the print device and said print job submitting device,

wherein in said network, a print job management system for controlling print job execution is ~~disposed corresponding~~ provided to each of said print devices,

wherein the print job includes a body of data and job information, and

wherein the print job submitting device sends the body of data directly to the one of the print devices in execution of a two-way type print job that requires a two-way communication with said print device at the time of printing.

said computer program causing a computer to implement the functions of:

in execution of said two-way type print job, establishing a two-way communication with said print device according to an instruction from said print job management system; and

when a notification of change, which represents that the print device for print job execution is changed, is received from one of said print job management systems, switching the destination of said two-way communication to a new print device,

wherein the notification includes an address of another print device and an instruction for switching a destination of the two-way communication.